

<110> Feldmann, Richard J.; Global Determinants, Inc.

<120> Symmetry in Connectron

<130> Jim Zegeer Law Offices - 703-684-8333

<141> 19 March 2004

<150> US 60/393,558 and US 09/866,925

<160> 29

<170> Proprietary

<210> 1

<211> 217

<212> DNA

<213> *Saccharomyces cerevisiae* complete genome.

<220>

<222> (12572)...(12788)

<223> Chromosome = 1 Strand = positive ConnectronObjectNumber = 36

<400> 1

gcactggtaa	caggtggtaa	tgaagaagta	atttcctgac	ttgttggtgt	actggtaaca	60
ggtggtaatg	atgaagtaat	ttcctgactt	gttggtgtac	tggtaacagg	tggtaatgaa	120
gaagtaattt	cctgacttgt	tggtgcactg	gtaacagggt	gtaatgatga	agtaatttcc	180
tgacttggtg	ttgtactggt	aacagggtgt	aatgatg			217

<210> 2

<211> 236

<212> DNA

<213> *Saccharomyces cerevisiae* complete genome.

<220>

<222> (12572)...(12807)

<223> Chromosome = 1 Strand = positive ConnectronObjectNumber = 39

<400> 2

gcactggtaa	caggtggtaa	tgaagaagta	atttcctgac	ttgttggtgt	actggtaaca	60
ggtggtaatg	atgaagtaat	ttcctgactt	gttggtgtac	tggtaacagg	tggtaatgaa	120
gaagtaattt	cctgacttgt	tggtgcactg	gtaacagggt	gtaatgatga	agtaatttcc	180
tgacttggtg	ttgtactggt	aacagggtgt	aatgatgaag	cagtttcctg	gcttgt	236

<210> 3

<211> 166

<212> DNA

<213> *Saccharomyces cerevisiae* complete genome.

<220>

<222> (24863)...(25028)

<223> Chromosome = 1 Strand = negative ConnectronObjectNumber = 112

<400> 3

aatcaccaaa	gtctacatat	tcgtcttcat	cattaccacc	tgttaccagt	gcaacaacaa	60
gtcagggaat	tactttctca	ttaccacctg	ttaccactac	aaaaacgagc	gaacaaacca	120
ctttgggtac	cgtgacatcc	tgcgaaatctc	atgtgtgcac	tgaatc		166

<210> 4

<211> 37

<212> DNA

<213> *Escherichia coli* K-12 MG1655 complete genome.

<220>

<222> (4626130)...(4626166)





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<223>      Chromosome = 1  Strand = negative  ConnectronObjectNumber = 975

<400>      9
ttacgcctga  tgcgctgcgc  ttatcaggcc  tacggg                      36

<210>      10

<211>      16
<212>      DNA
<213>      Saccharomyces cerevisiae complete genome - problem.

<220>
<222>      (221330)...(221345)
<223>      Chromosome = 2  Strand = positive  ConnectronObjectNumber = 792a

<400>      10
tatatatatg  tcactg                      16

<210>      11

<211>      16
<212>      DNA
<213>      Saccharomyces cerevisiae complete genome - problem.

<220>
<222>      (221346)...(221361)
<223>      Chromosome = 2  Strand = positive  ConnectronObjectNumber = 793

<400>      11
tattgcatgc  tggatg                      16

<210>      12

<211>      539
<212>      DNA
<213>      Saccharomyces cerevisiae complete genome - problem.

<220>
<222>      (448454)...(448992)
<223>      Chromosome = 5  Strand = positive  ConnectronObjectNumber = 4749

<400>      12
tatatatatg  tcactgtatt  gcatgctgga  tgggtgtaga  caaggccgta  gggacatata  60
gcatctagga  agtaaccttg  tacgaaaata  ggcaatattt  cctgtttagg  cgattgtgac  120
gcagatttta  gtccaacgat  ctacgcgtcaa  ggaatttttt  tatagtggga  cattgcacca  180
aggaagtaac  ttgatacgtc  gtgggtgaat  ggggtctgtt  tcttattcgg  cggggtaata  240
catttttggg  ggaagtttgt  ctgtctgacg  cgccatatgt  aggtacgcca  aaaagggtc  300
ctctacttcg  aagcgcgagg  tcgtatacct  aataaggaaa  tgtaatttat  aactttttat  360
tatattggtc  ttttcgagag  cggaacgtag  gtccatgttt  aaagtatcca  agagaatatc  420
cacgaagcgg  ctgagcaacg  aacagaatcc  tggttctcct  cgactaagca  gatagttaag  480
atactgtgca  ccatggaaat  tgaaaacgaa  agtacgtacc  gactacttta  tttttgcag  539

<210>      13

<211>      158
<212>      DNA
<213>      Saccharomyces cerevisiae complete genome - problem.

<220>
<222>      (24863)...(25028)
<223>      Chromosome = 5  Strand = negative  ConnectronObjectNumber = 4824a

<400>      13
tatatatatg  tcactgtatt  gcatgctgga  tgggtgtaga  caaggccgta  gggacatata  60
gcatctagga  agtaaccttg  tacgaaaata  ggcaatattt  cctgtttagg  cgattgtgac  120
gcagatttta  gtccaacgat  ctacgcgtcaa  ggaattttt  158

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<210>          14

<211>          134
<212>          DNA
<213>          Halobacterium sp. NRC-1 complete genome.

<220>
<222>          (732401)...(732534)
<223>          Chromosome = 1 Strand = positive ConnectronObjectNumber = 6612

<400>          14
ttcatcacag acgaggacga ggcgcggccaa gtgggggatcg gcacactcat cgtgttcac 60
gcgatgggtgc tggtcgccgc gatcgccgcc ggcgctcctca tcaacactgc cggctacctc 120
caatccaagg ggctc 134

<210>          15

<211>          193
<212>          DNA
<213>          Halobacterium sp. NRC-1 complete genome.

<220>
<222>          (733018)...(733209)
<223>          Chromosome = 1 Strand = positive ConnectronObjectNumber = 6644a

<400>          15
gacgagcgcg gtcaagtggg gatcggcaca ctcatcgtgt tcatcgcgat ggtgctggtc 60
gccgcgatcg ccgccggcgt cctcatcaac accgccggct acctccaatc caagggggtcg 120
gcaaccgggtg aggaagcctc cgcacaggtc tccaaccgca tcaacatcgt ctccgcgtac 180
ggcaacgtca aca 193

<210>          16

<211>          85
<212>          DNA
<213>          Halobacterium sp. NRC-1 complete genome.

<220>
<222>          (773399)...(773483)
<223>          Chromosome = 1 Strand = positive ConnectronObjectNumber = 6852

<400>          16
gtgggggatcg gcacgctcat cgtgttcacg gcgatgggtgc tggtcgccgc gatcgccgcc 60
ggcgctcctca tcaacactgc cggct 85

<210>          17

<211>          121
<212>          DNA
<213>          Pseudomonas aeruginosa PA01, complete genome.

<220>
<222>          (4832718)...(4832838)
<223>          Chromosome = 1 Strand = positive ConnectronObjectNumber = 53464

<400>          17
gccaacatcg aggcctcaa cagccgcacg gtgaacatcg gccagatcct cgaagtgatc 60
aagggcacatc ccgagcagac caacctgctc gccctcaacg ccgcatcga agccgcgcgc 120
g 121

<210>          18

<211>          194
<212>          DNA
<213>          Pseudomonas aeruginosa PA01, complete genome.

<220>

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<222>      (4836528)...(4836720)
<223>      Chromosome = 1 Strand = positive ConnectronObjectNumber = 53531

<400>      18
ggacggcaaa caggtggtcg agcagaccat ccgcgcgatg aacgagcttt ccgagaagat      60
cagcgccctcc tgcgccaaca tcgaggccct caacagccgc acggtgaaca tcggccagat      120
cctcgaagtg atcaagggca tctccgagca gaccaacctg ctccgcctca acgccgccat      180
cgaagccgcg cgcg                                     194

<210>      19

<211>      169
<212>      DNA
<213>      Pseudomonas aeruginosa PA01, complete genome.

<220>
<222>      (4838678)...(4838846)
<223>      Chromosome = 1 Strand = positive ConnectronObjectNumber = 53549a

<400>      19
accatccgcg cgatgaacga gctttccgag aagatcagcg cctcctgcgc caacatcgag      60
gccctcaaca gccgcacggt gaacatcggc cagatcctcg aagtgatcaa gggcatctcc      120
gagcagacca acctgctcgc cctcaacgcc gccatcgaag ccgcgcgcg      169

<210>      20

<211>      36
<212>      DNA
<213>      Sequence Recognized by Synthetic DNA Binding Protein.

<220>

<400>      20
tccccatgag catagatatg caggtaggcg gcaagt      36

<210>      21

<211>      136
<212>      DNA
<213>      Vibrio cholerae chromosome I, complete chromosome.

<220>
<222>      (952641)...(952777)
<223>      Chromosome = 1 Strand = negative ConnectronObjectNumber = 607

<400>      21
tgtatatacc caaactactt ggagttgcag gtaggcggca agtgagtgag tccccatgag      60
catagataga ctatgtgatt ggggtgaacg aacgtagcca acaccgctgc agcttcaagt      120
aggaagggta tacctt                                     136

<210>      22

<211>      117
<212>      DNA
<213>      Vibrio cholerae chromosome I, complete chromosome.

<220>
<222>      (1005810)...(1005926)
<223>      Chromosome = 1 Strand = negative ConnectronObjectNumber = 646

<400>      22
taccaaaact acttggagtt gcaggtaggc ggcaagagag tgaatcccca tcagcataga      60
cagactatgt gattgggggtg aacgaacgta gccaataccg ctgcagcttc aagtagg      117

<210>      23

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<211>          36
<212>          DNA
<213>          Sequence Recognized by Synthetic PNA.

<220>

<400>          23
tccccatgag catagatatg caggtaggcg gcaagt          36

<210>          24

<211>          136
<212>          DNA
<213>          Vibrio cholerae chromosome I, complete chromosome.

<220>
<222>          (952641)...(952777)
<223>          Chromosome = 1 Strand = negative ConnectronObjectNumber = 607

<400>          24
tgtatatacc caaactactt ggagttgcag gtaggcggca agtgagtgcag tccccatgag          60
catagataga ctatgtgatt ggggtgaacg aacgtagcca acaccgctgc agcttcaagt          120
aggaagggta tacctt          136

<210>          25

<211>          117
<212>          DNA
<213>          Vibrio cholerae chromosome I, complete chromosome.

<220>
<222>          (1005810)...(1005926)
<223>          Chromosome = 1 Strand = negative ConnectronObjectNumber = 646

<400>          25
taccaaaact acttggagtt gcaggtaggc ggcaagagag tgaatcccca tcagcataga          60
cagactatgt gattgggggtg aacgaacgta gccaataccg ctgcagcttc aagtagg          117

<210>          26

<211>          15
<212>          DNA
<213>          Sequence Recognized by Synthetic Linked Pair of DNA Binding Objects.

<220>

<400>          26
cccgacacaa cctgc          15

<210>          27

<211>          15
<212>          DNA
<213>          Sequence Recognized by Synthetic Linked Pair of DNA Binding Objects.

<220>

<400>          27
cccggggttc ccgag          15

<210>          28

<211>          64
<212>          DNA

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<213>      Aeropyrum pernix K1 complete genome.

<220>
<222>      (284008)...(284070)
<223>      Chromosome = 1  Strand = negative  ConnectronObjectNumber = 218

<400>      28
cccagccgtg cccgacacaa cctgccataa tttgttacat gaaggcacgg tttgggtgaa 60
cggc                                             64

<210>      29

<211>      163
<212>      DNA
<213>      Aeropyrum pernix K1 complete genome.

<220>
<222>      (326716)...(326878)
<223>      Chromosome = 1  Strand = negative  ConnectronObjectNumber = 295

<400>      29
ataaatctaa cccggtgacc cgggggttcc cgagggaagc ccccaggggc ttccgtaggc 60
ggccccgggg agaccgtgat gaaccagcc gtgcccagaca caacctgcta taatttgta 120
catgaaggca cggtttgggt gaacggctca taatcctctc gat 163

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